

FIG. 1  
PRIOR ART

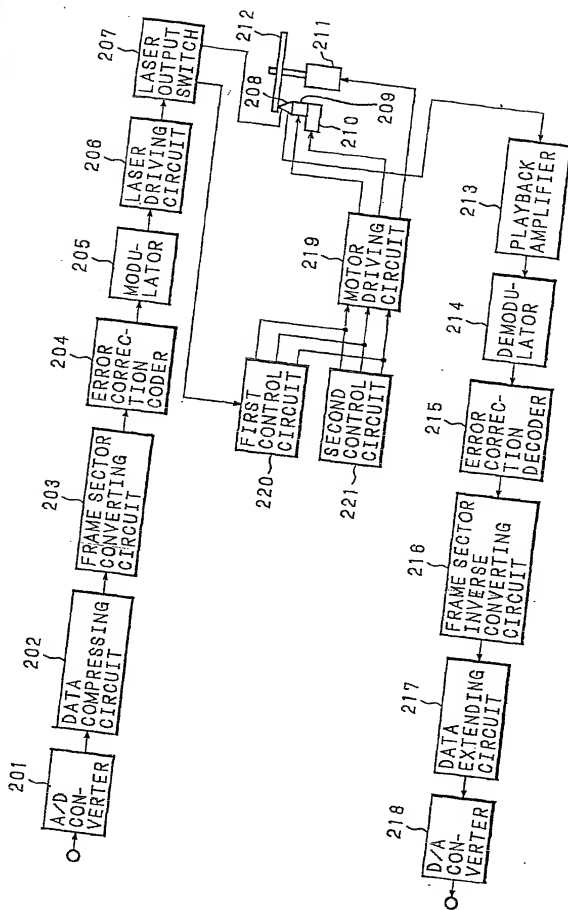


FIG. 2  
PRIOR ART

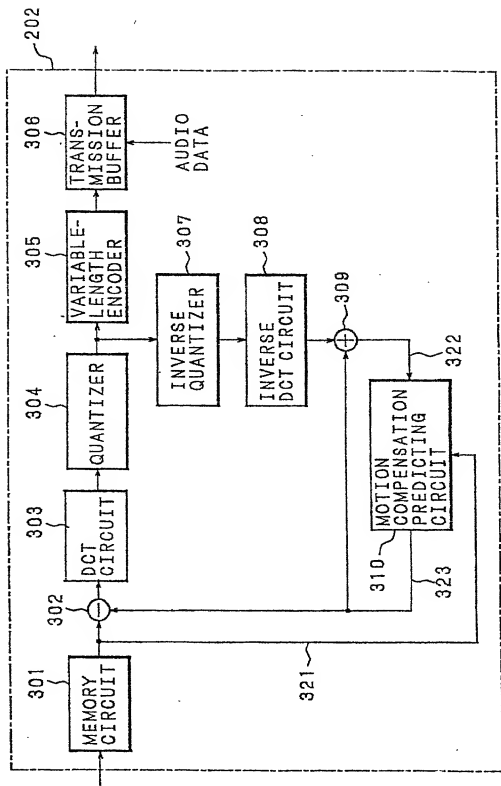


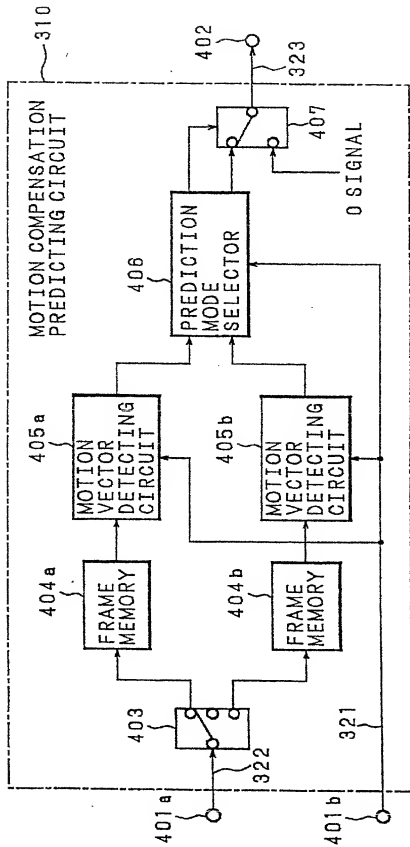
FIG. 3  
PRIOR ART

FIG. 4  
PRIOR ART

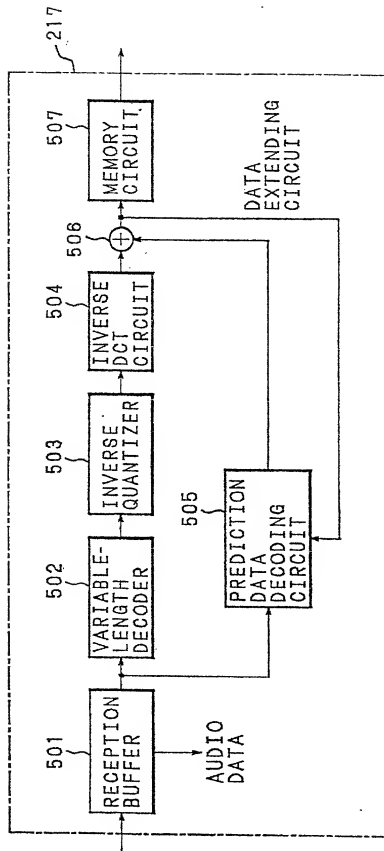


FIG. 5  
PRIOR ART

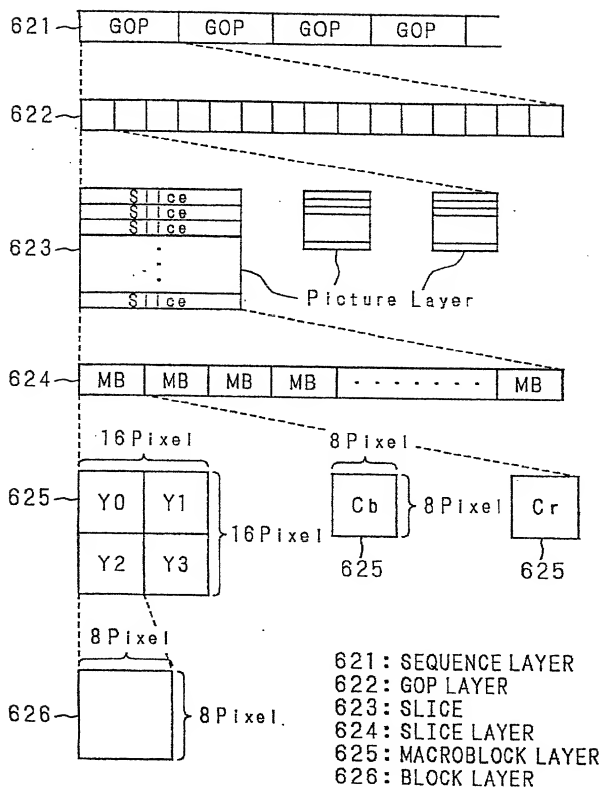


FIG. 6  
PRIOR ART

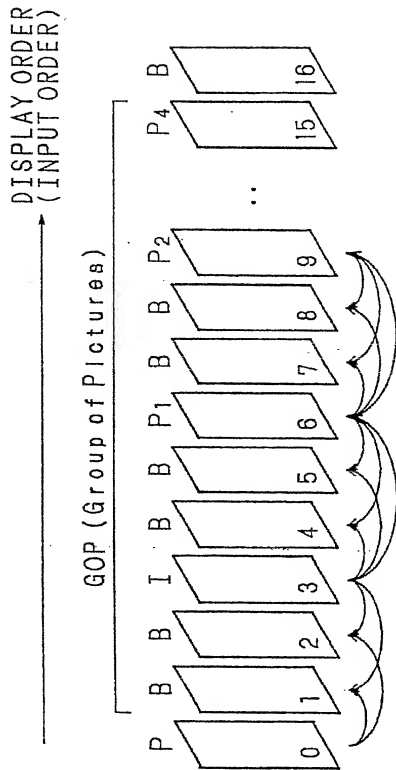


FIG. 7A  
PRIOR ART  
INPUT ORDER

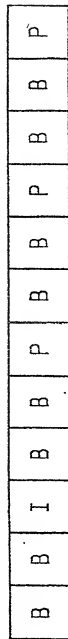


FIG. 7B  
PRIOR ART  
OUTPUT ORDER

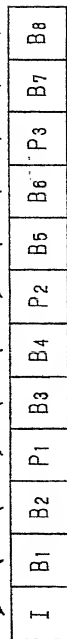


FIG. 8  
PRIOR ART

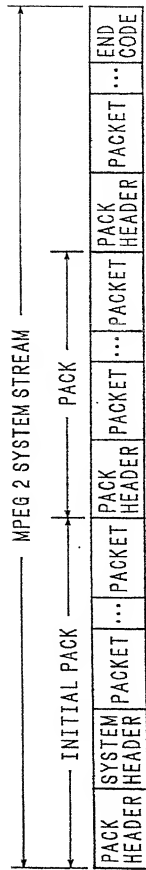




FIG. 9  
PRIOR ART

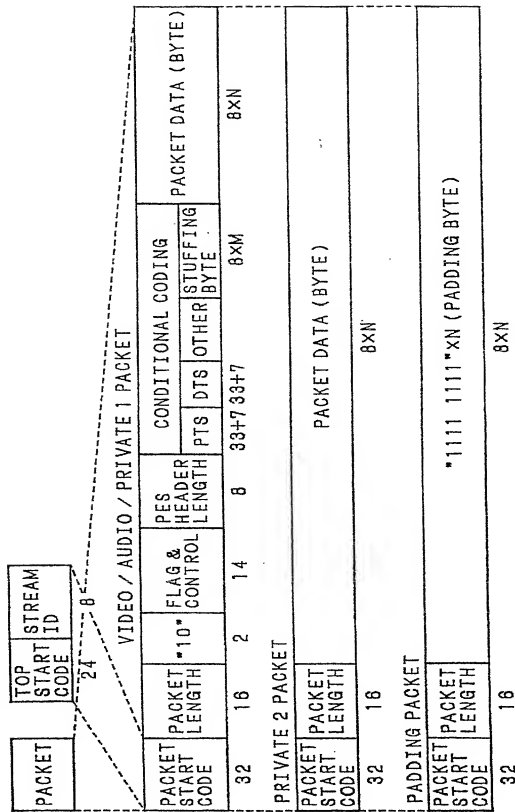


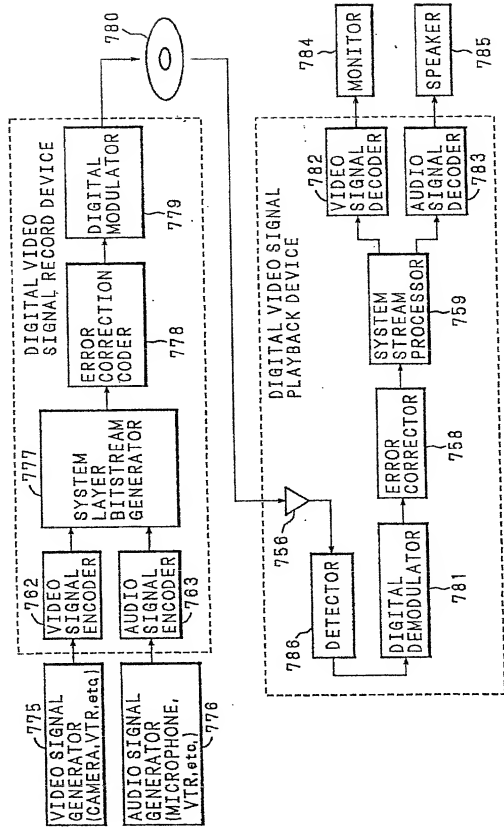
FIG. 10  
PRIOR ART



FIG. 12  
PRIOR ART

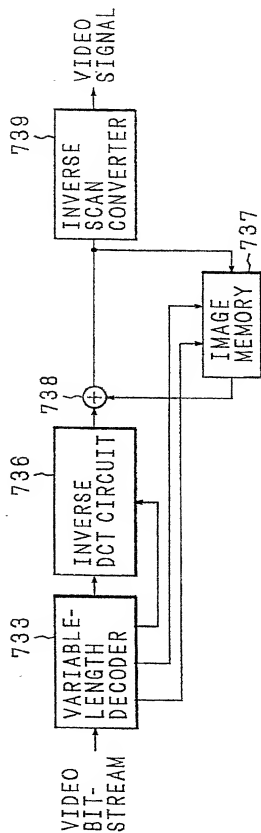
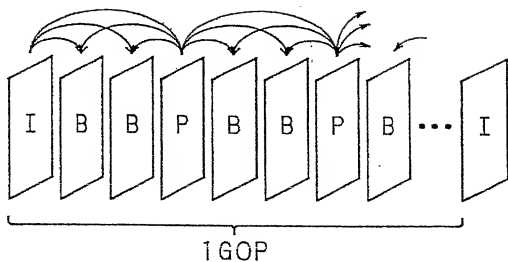


FIG. 13A  
PRIOR ART



I: I-PICTURE  
P: P-PICTURE  
B: B-PICTURE

ARROW SHOWING PREDICTION

FIG. 13B  
PRIOR ART

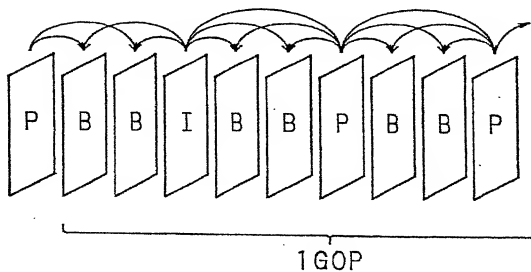


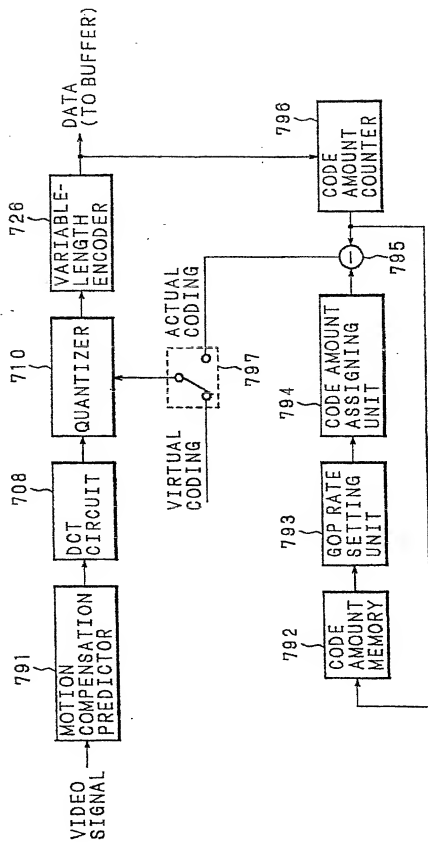
FIG. 14  
PRIOR ART

FIG. 15

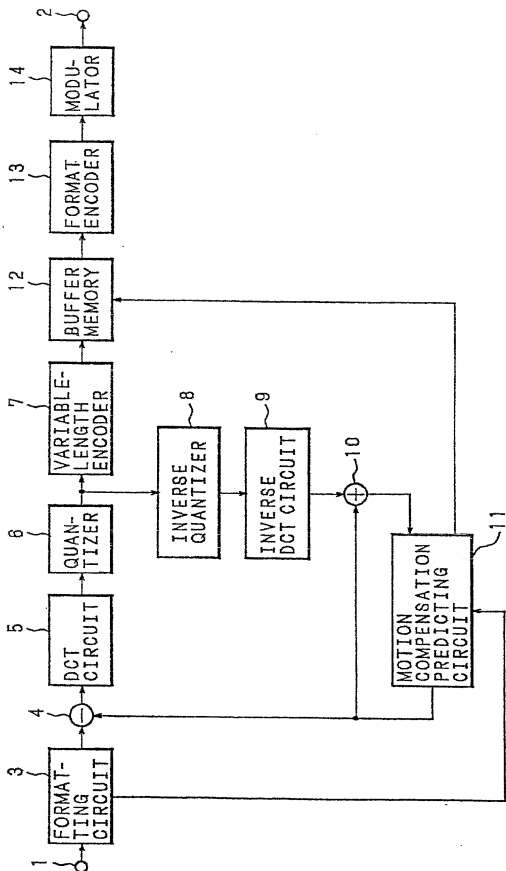


FIG. 16

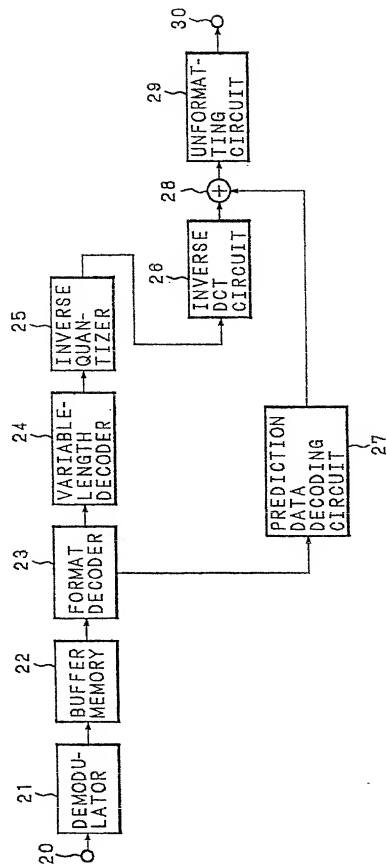




FIG. 17.

Y <sub>1</sub>	Y <sub>3</sub>
Y <sub>2</sub>	Y <sub>4</sub>

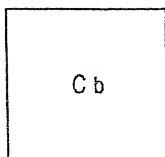
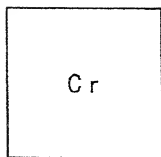


FIG. 18

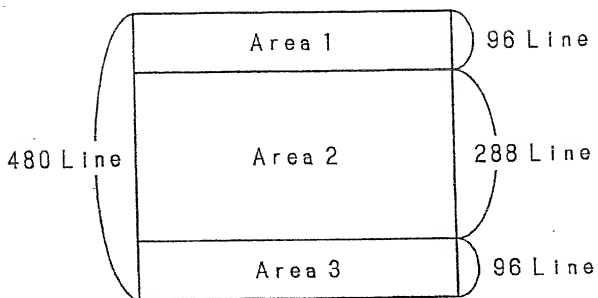




FIG. 20A

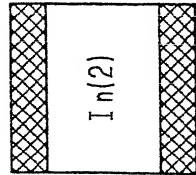


FIG. 20B

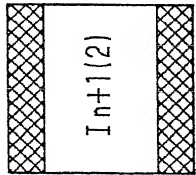


FIG. 20C

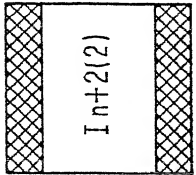
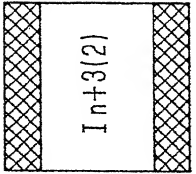


FIG. 20D



: MASK DATA



FIG. 21 A

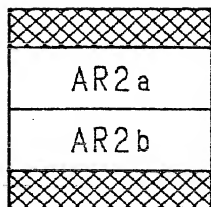


FIG. 21 B

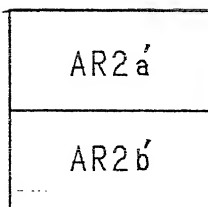


FIG. 22

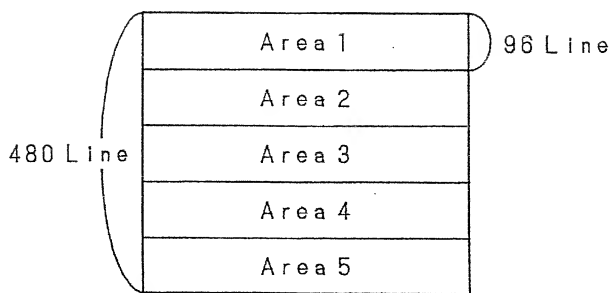


FIG. 23

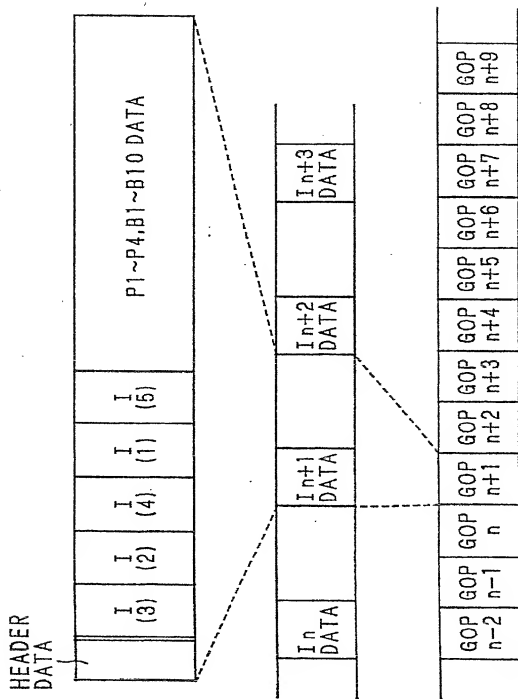


FIG. 24A

$I_n(1)$
$I_n(2)$
$I_n(3)$
$I_n(4)$
$I_n(5)$



FIG. 24B

$I_{n+1}(1)$
$I_{n+1}(2)$
$I_{n+1}(3)$
$I_{n+1}(4)$
$I_n(5)$



FIG. 24C

$I_{n+2}(1)$
$I_{n+2}(2)$
$I_{n+2}(3)$
$I_{n+2}(4)$
$I_{n+2}(5)$



FIG. 24D

$I_{n+2}(1)$
$I_{n+3}(2)$
$I_{n+3}(3)$
$I_{n+3}(4)$
$I_{n+2}(5)$



FIG. 24E

$I_{n+4}(1)$
$I_{n+4}(2)$
$I_{n+4}(3)$
$I_{n+4}(4)$
$I_{n+4}(5)$



FIG. 25A

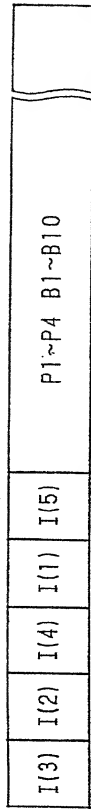


FIG. 25B

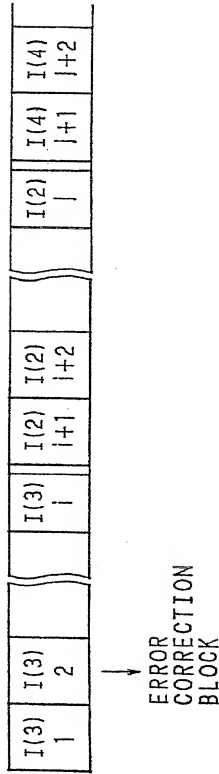


FIG. 26A

$I_{n+4}(1)$
$I_{n+3}(2)$
$I_{n+2}(3)$
$I_{n+1}(4)$
$I_n(5)$



FIG. 26B

$I_{n+5}(1)$
$I_{n+4}(2)$
$I_{n+3}(3)$
$I_{n+2}(4)$
$I_{n+1}(5)$



FIG. 26C

$I_{n+6}(1)$
$I_{n+5}(2)$
$I_{n+4}(3)$
$I_{n+3}(4)$
$I_{n+2}(5)$



FIG. 26D

$I_{n+7}(1)$
$I_{n+6}(2)$
$I_{n+5}(3)$
$I_{n+4}(4)$
$I_{n+3}(5)$

FIG. 27A

$In+2(1)$
$In+1(2)$
$In(3)$
$In-1(4)$
$In-2(5)$



FIG. 27B

$In+2(1)$
$In+2(2)$
$In+1(3)$
$In(4)$
$In-1(5)$



FIG. 27C

$In+4(1)$
$In+3(2)$
$In+2(3)$
$In+1(4)$
$In(5)$



FIG. 27D

$In+5(1)$
$In+4(2)$
$In+3(3)$
$In+2(4)$
$In(5)$



FIG. 27E

$In+6(1)$
$In+5(2)$
$In+4(3)$
$In+3(4)$
$In+2(5)$



FIG. 27F

$In+7(1)$
$In+6(2)$
$In+5(3)$
$In+4(4)$
$In+3(5)$

FIG. 28

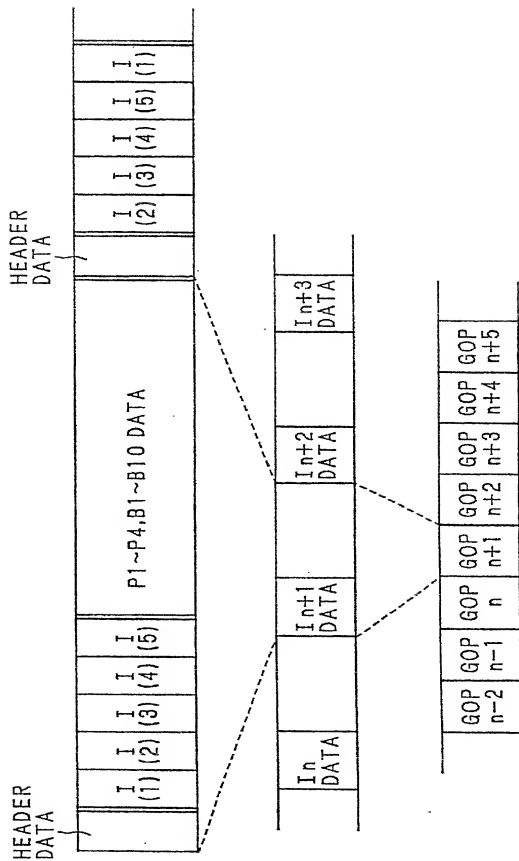


FIG. 29A

$I_n(1)$
$I_n(2)$
$I_n(3)$
$I_n(4)$
$I_n(5)$



FIG. 29B

$I_{n+1}(1)$
$I_{n+1}(2)$
$I_{n+1}(3)$
$I_{n+1}(4)$
$I_n(5)$



FIG. 29C

$I_{n+2}(1)$
$I_{n+2}(2)$
$I_{n+2}(3)$
$I_{n+2}(4)$
$I_{n+2}(5)$



FIG. 29D

$I_{n+2}(1)$
$I_{n+2}(2)$
$I_{n+3}(3)$
$I_{n+3}(4)$
$I_{n+3}(5)$



FIG. 29E

$I_{n+4}(1)$
$I_{n+4}(2)$
$I_{n+4}(3)$
$I_{n+4}(4)$
$I_{n+4}(5)$



FIG. 31A

$I_n(1)$
$I_n(2)$
$I_n(3)$
$I_n(4)$
$I_n(5)$



FIG. 31B

$P1_n(1)$
$P1_n(2)$
$P1_n(3)$
$P1_n(4)$
$P1_n(5)$



FIG. 31C

$P2_n(1)$
$P2_n(2)$
$P2_n(3)$
$P2_n(4)$
$P2_n(5)$



FIG. 31D

$P3_n(1)$
$P3_n(2)$
$P3_n(3)$
$P3_n(4)$
$P3_n(5)$



FIG. 31E

$P3_n(1)$
$P4_n(2)$
$P4_n(3)$
$P3_n(4)$
$P3_n(5)$



FIG. 31F

$I_{n+1}(1)$
$I_{n+1}(2)$
$I_{n+1}(3)$
$I_{n+1}(4)$
$I_{n+1}(5)$

FIG. 32A

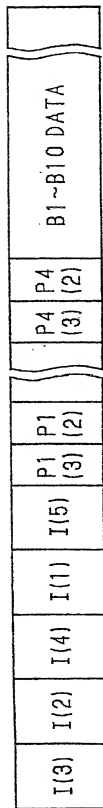


FIG. 32B

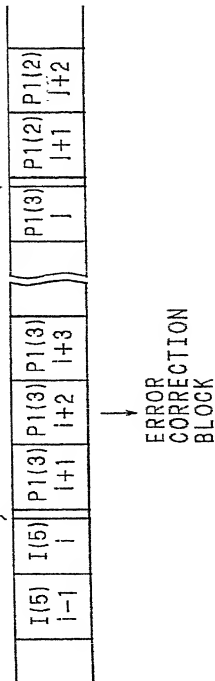




FIG. 33A

$P_{4n}(1)$
$P_{3n}(2)$
$P_{2n}(3)$
$P_{1n}(4)$
$I_n(5)$



FIG. 33B

$I_{n+1}(1)$
$P_{4n}(2)$
$P_{3n}(3)$
$P_{2n}(4)$
$P_{1n}(5)$



FIG. 33C

$P_{1n+1}(1)$
$I_{n+1}(2)$
$P_{4n}(3)$
$P_{3n}(4)$
$P_{2n}(5)$



FIG. 33D

$P_{2n+1}(1)$
$P_{1n+1}(2)$
$I_{n+1}(3)$
$P_{4n}(4)$
$P_{5n+1}(5)$



FIG. 33E

$P_{3n+1}(1)$
$P_{2n+1}(2)$
$P_{1n+1}(3)$
$I_{n+1}(4)$
$P_{4n}(5)$



FIG. 33F

$P_{4n+1}(1)$
$P_{3n+1}(2)$
$P_{2n+1}(3)$
$P_{1n+1}(4)$
$I_{n+1}(5)$



FIG. 33G

$I_{n+2}(1)$
$P_{4n+1}(2)$
$P_{3n+1}(3)$
$P_{2n+1}(4)$
$P_{1n+1}(5)$



FIG. 34A

$P3_n$	(1)
$P2_n$	(2)
$P1_n$	(3)
$I_n$	(4)
$P4_{n-1}$	(5)



FIG. 34B

$P3_n$	(1)
$P3_n$	(2)
$P2_n$	(3)
$P1_n$	(4)
$I_n$	(5)



FIG. 34C

$I_{n+1}$	(1)
$P4_n$	(2)
$P3_n$	(3)
$P2_n$	(4)
$P1_n$	(5)



FIG. 34D

$P1_{n+1}$	(1)
$I_{n+1}$	(2)
$P4_n$	(3)
$P3_n$	(4)
$P2_n$	(5)



FIG. 34F

$P3_{n+1}$	(1)
$P2_{n+1}$	(2)
$P1_{n+1}$	(3)
$I_{n+1}$	(4)
$P3_n$	(5)



FIG. 34E

$P2_{n+1}$	(1)
$P1_{n+1}$	(2)
$I_{n+1}$	(3)
$P3_n$	(4)
$P3_{n-1}$	(5)



FIG. 35

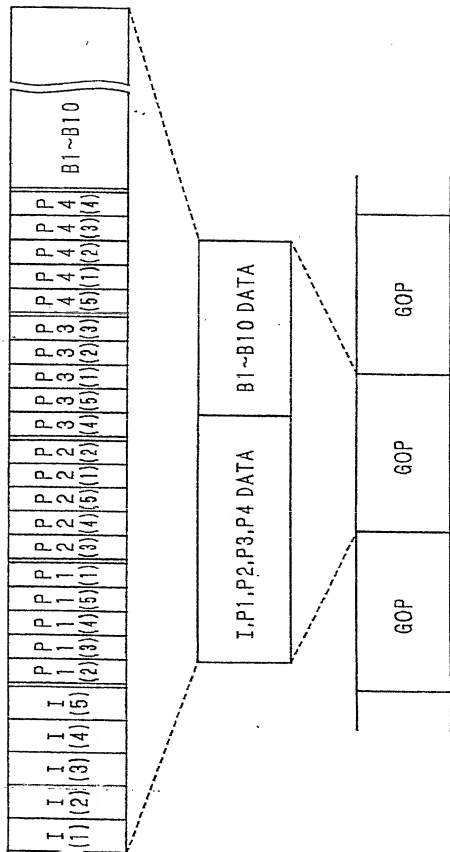


FIG. 36A

$I_n(1)$
$I_n(2)$
$I_n(3)$
$I_n(4)$
$I_n(5)$



FIG. 36B

$P_{1n}(1)$
$P_{1n}(2)$
$P_{1n}(3)$
$P_{1n}(4)$
$P_{1n}(5)$



FIG. 36C

$P_{2n}(1)$
$P_{2n}(2)$
$P_{2n}(3)$
$P_{2n}(4)$
$P_{2n}(5)$



FIG. 36D

$P_{3n}(1)$
$P_{3n}(2)$
$P_{3n}(3)$
$P_{3n}(4)$
$P_{3n}(5)$



FIG. 36E

$P_{4n}(1)$
$P_{4n}(2)$
$P_{3n}(3)$
$P_{3n}(4)$
$P_{3n}(5)$



FIG. 36F

$I_{n+1}(1)$
$I_{n+1}(2)$
$I_{n+1}(3)$
$I_{n+1}(4)$
$I_{n+1}(5)$

FIG. 37

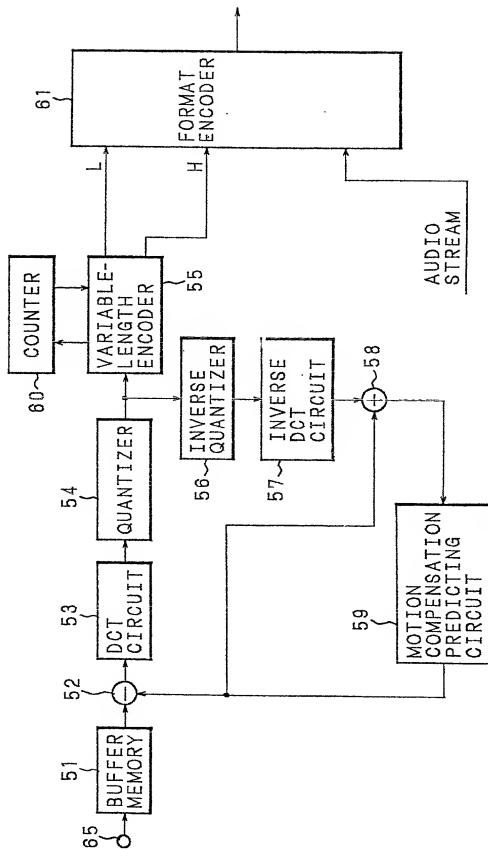
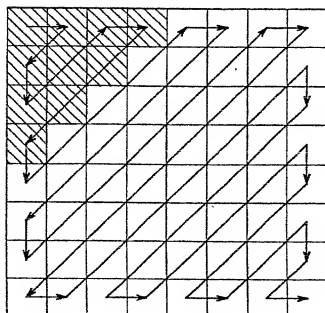


FIG. 38



10087257.022702

FIG. 39

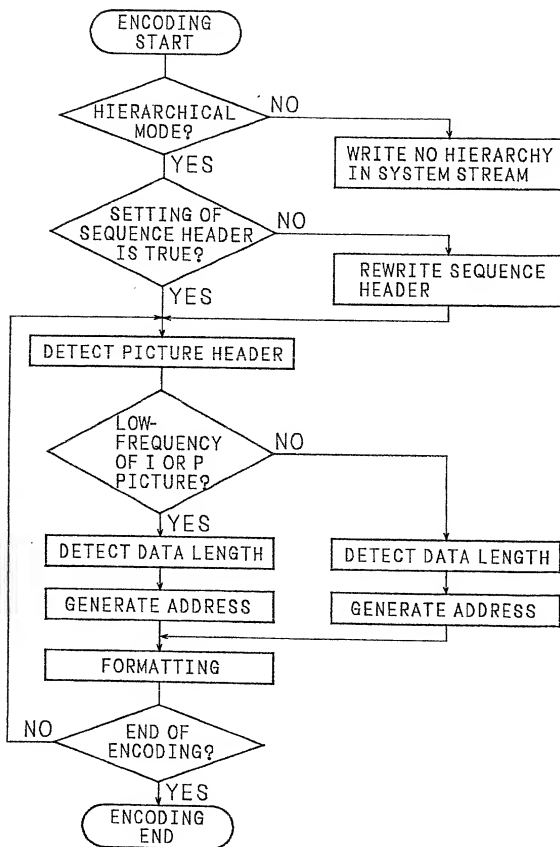


FIG. 40

```

sequence_scalable_extension(){
    extension_start_code_identifier
    scalable_mode
    layer_id
    if(scalable_mode=="spatial scalability"){
        lower_layer_prediction_horizontal_size
        maker_bit
        lower_layer_prediction_vertical_size
        horizontal_subsampling_factor_m
        horizontal_subsampling_factor_n
        vertical_subsampling_factor_m
        vertical_subsampling_factor_n
    }
    if(scalable_mode=="temporal scalability"){
        picture_mux_enable
        if(picture_mux_enable)
            mux_to_progressive_sequence
        picture_mux_order
        picture_mux_factor
    }
    next_start_code[]
}

slice(){
    slice_start_code
    if(vertical_size>2800)
        slice_vertical_position_extension
    if(<sequence_scalable_extension() is present in the bitstream>)
        if(scalable_mode=="data partitioning")
            priority_breakpoint
    quantiser_scale_code
    if(nextbits[0]=='1'){
        intra_slice_flag
        intra_slice
        reserved_bits
        while(nextbits[0]=='1'){
            extra_bit_slice
            extra_information_slice
        }
    }
    extra_bit_slice
    do{
        macroblock[]
    }while(nextbits[0]!='000 0000 0000 0000 0000 0000')
    next_start_code[]
}

```



FIG. 41A  
BITSTREAM IN  
NO HIERARCHY

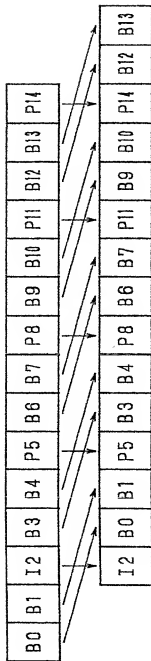
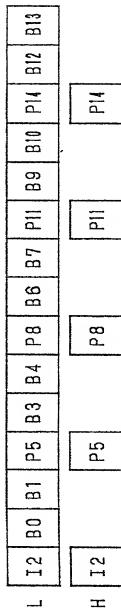
FIG. 41B  
BITSTREAM IN  
HIERARCHY

FIG. 41C  
REARRANGED BITSTREAM  
IN CONSIDERATION OF  
SPECIAL PLAYBACK

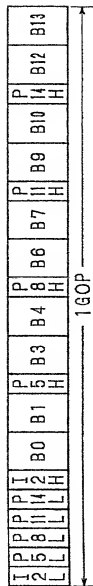


FIG. 41D  
PROGRAM  
STREAM  
FOR DISC  
RECORDING

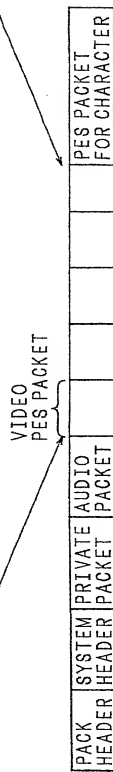






FIG. 44

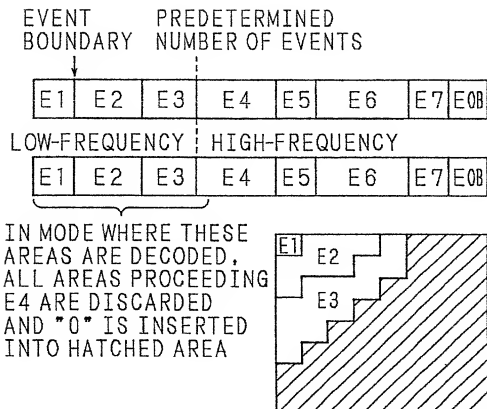


FIG. 45

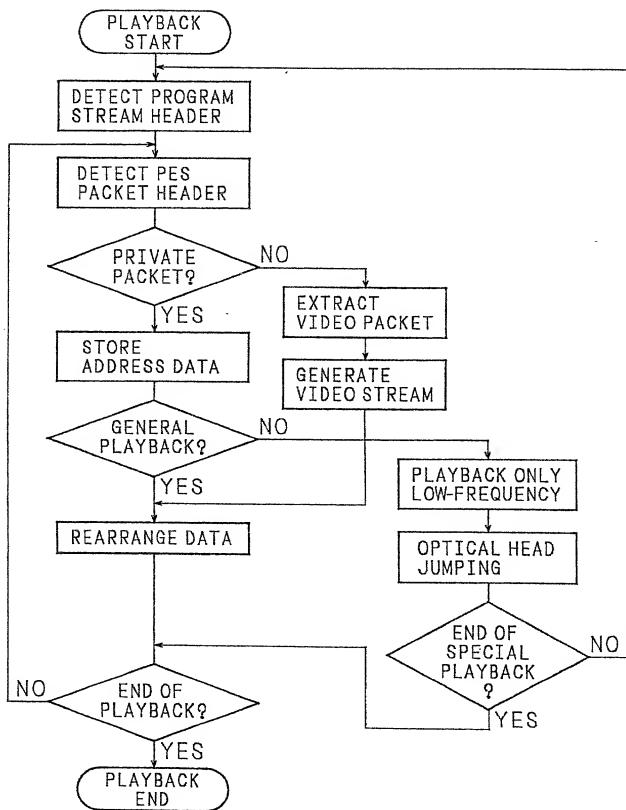


FIG. 46

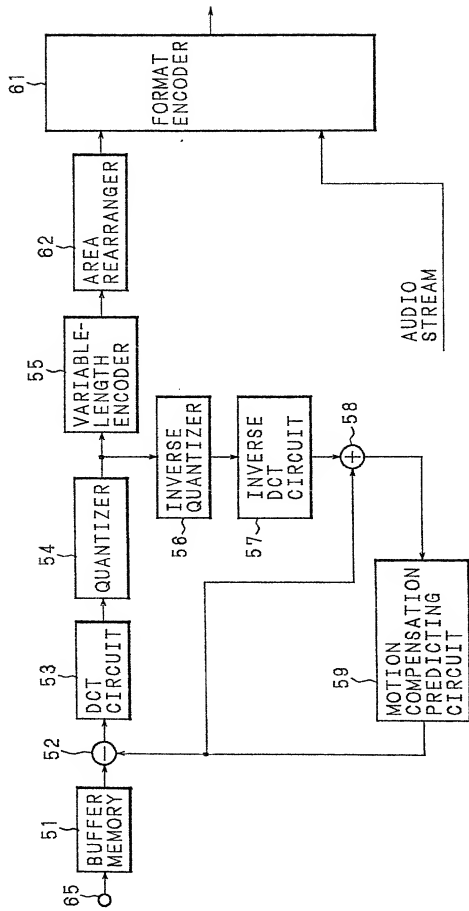


FIG. 47

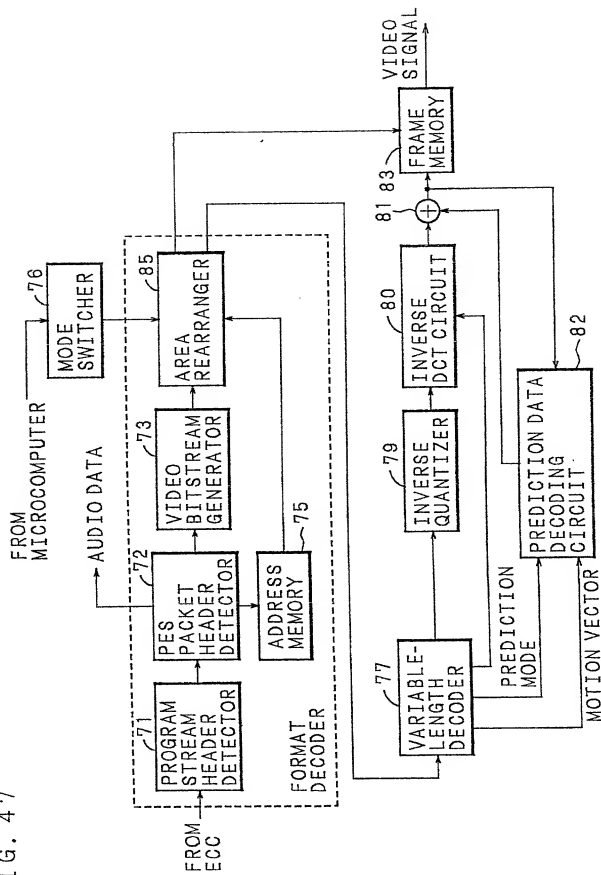


FIG. 48

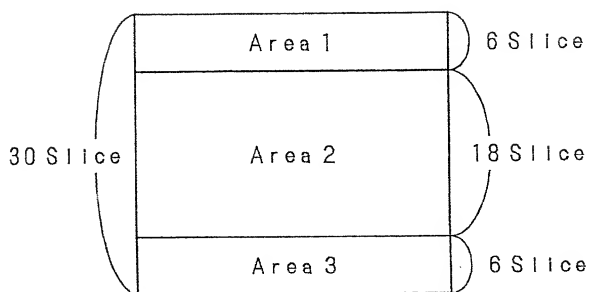




FIG. 49

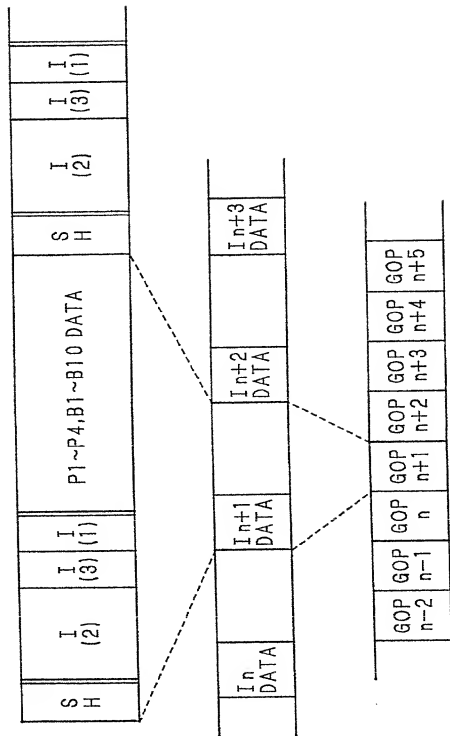


FIG. 50

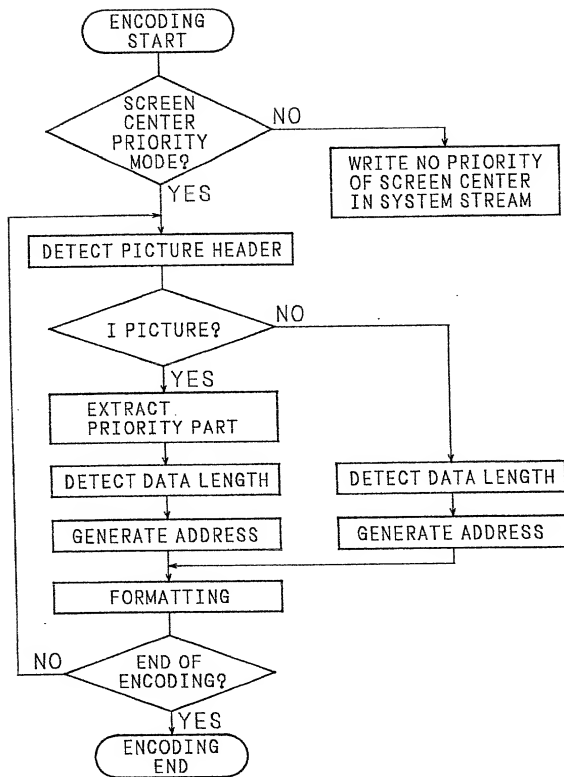




FIG. 52

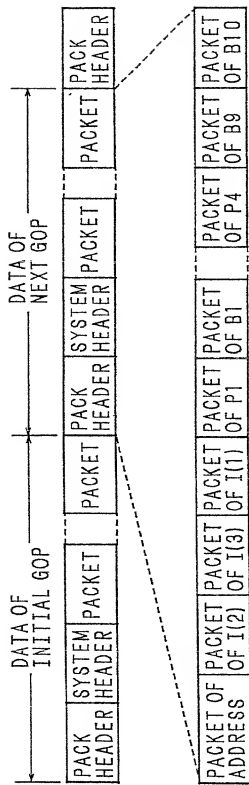


FIG. 53A

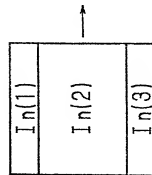


FIG. 53B

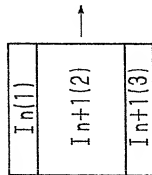


FIG. 53C

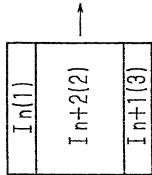


FIG. 53D

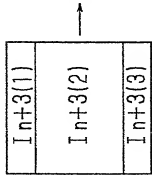


FIG. 53E

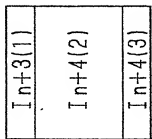


FIG. 54A

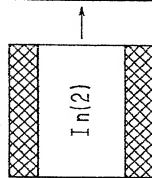


FIG. 54B

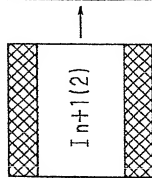


FIG. 54C

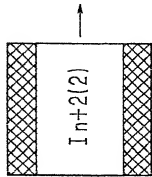


FIG. 54D

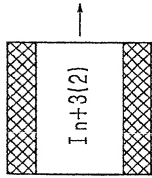
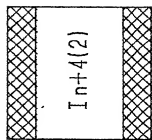


FIG. 54E



:MASK DATA



FIG. 55A

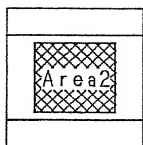


FIG. 55B

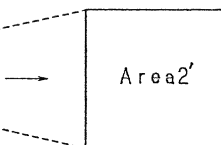


FIG. 56

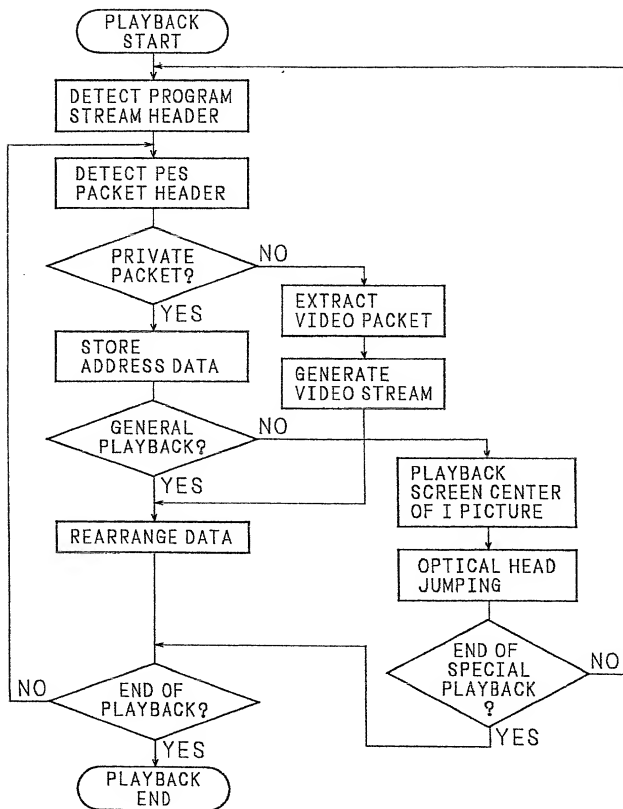




FIG. 57

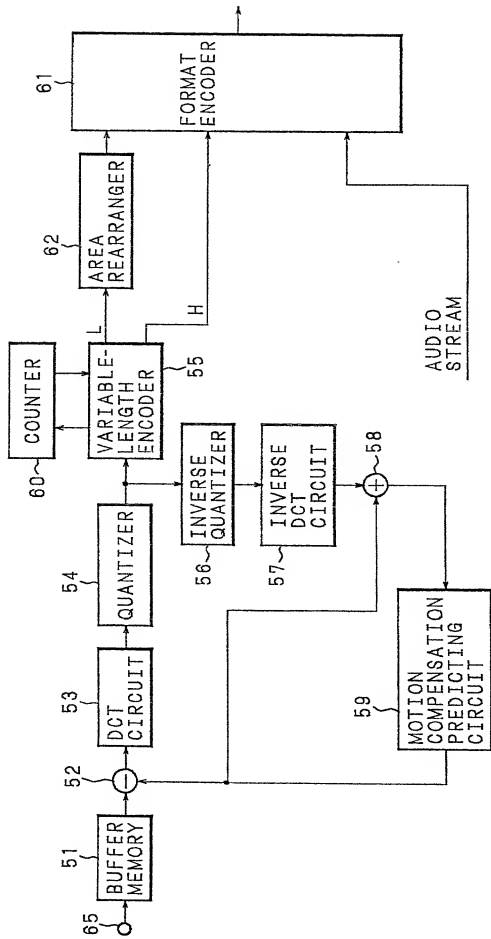


FIG. 58

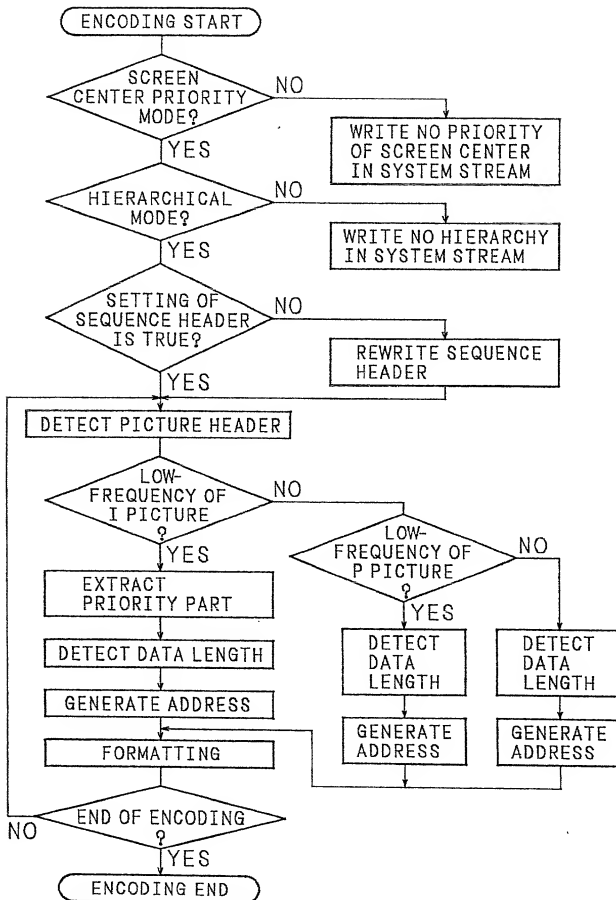








FIG. 62

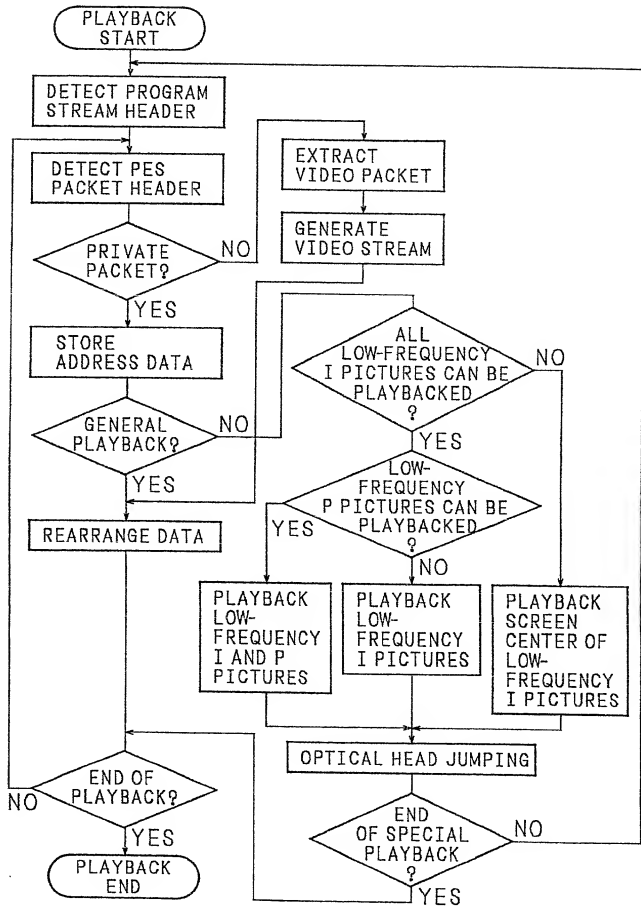


FIG. 63

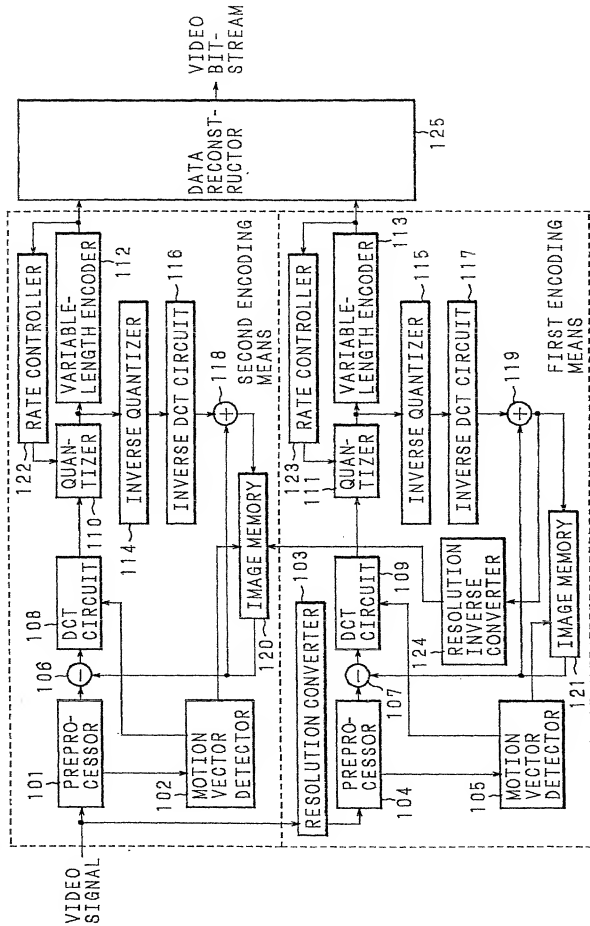


FIG. 64

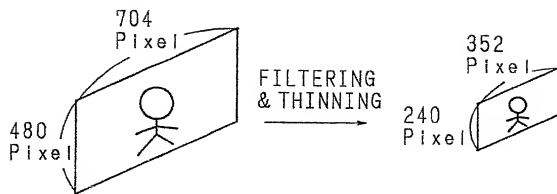




FIG. 65

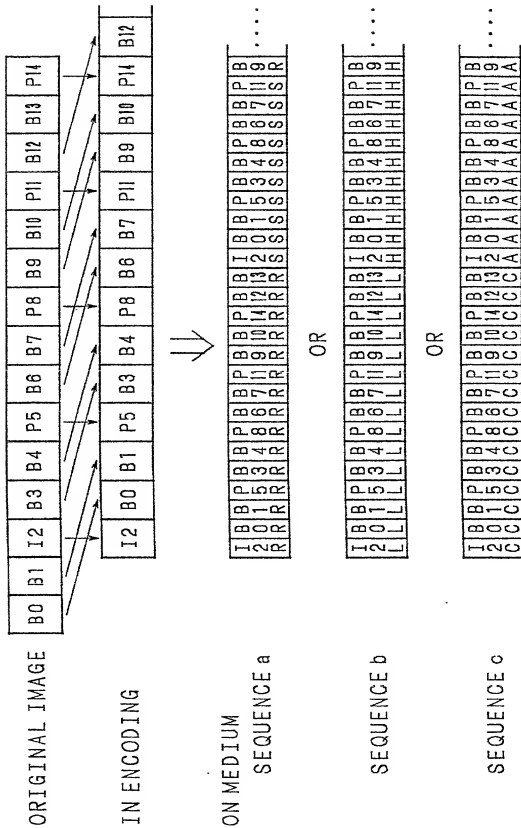


FIG. 66

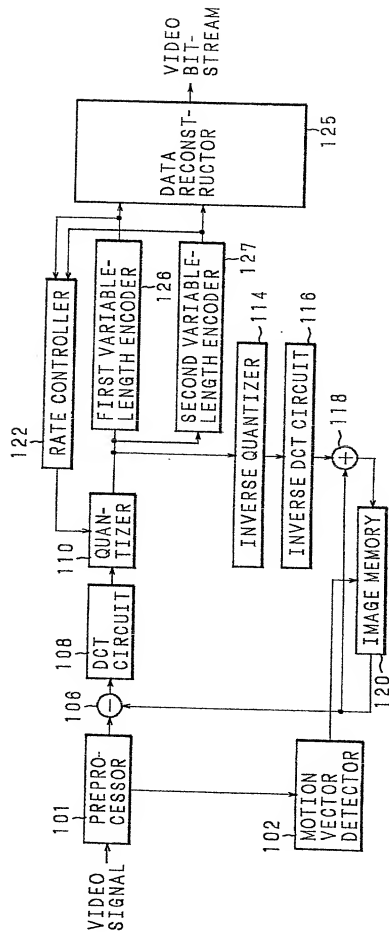
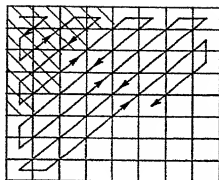


FIG. 67

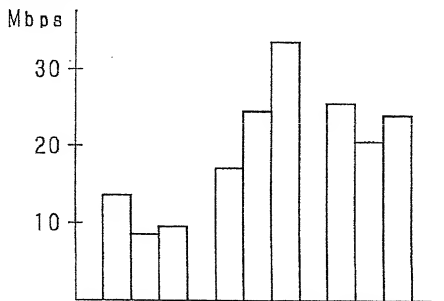


10  
9  
8  
7  
6  
5  
4  
3  
2  
1  
A  
B  
C  
D  
E  
F  
G  
H  
I  
J



FIG. 69

N=15 (NUMBER OF PICTURES IN GOP)  
M=3 (CYCLE OF I,P PICTURE)  
AVERAGE RATE 4Mbps  
RATE IN  
PICTURES  
COLLECTION



① ② ③  
I B P  
AVERAGE AVERAGE AVERAGE  
9.4 Mbps 24.5 Mbps 22.6 Mbps

①: SCENE①  
②: SCENE②  
③: SCENE③



FIG. 71 A

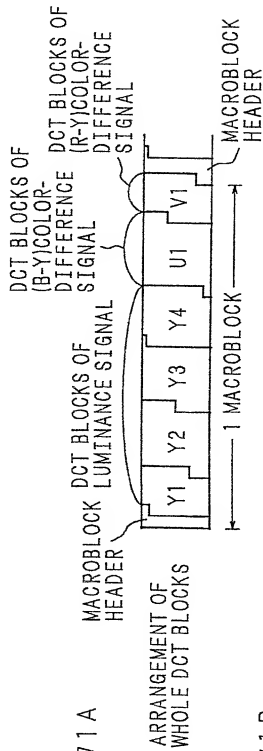


FIG. 71 B

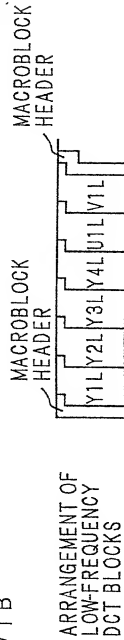


FIG. 71 C

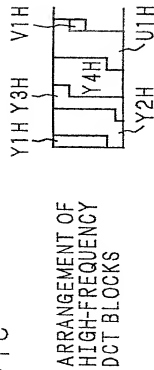


FIG. 71D

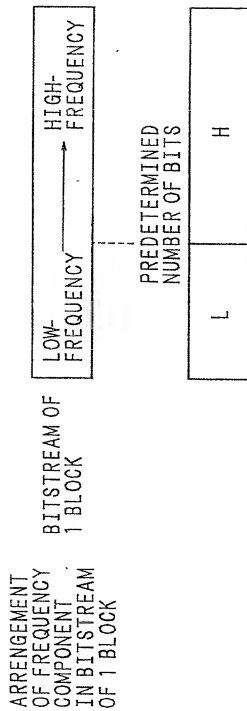




FIG. 72A

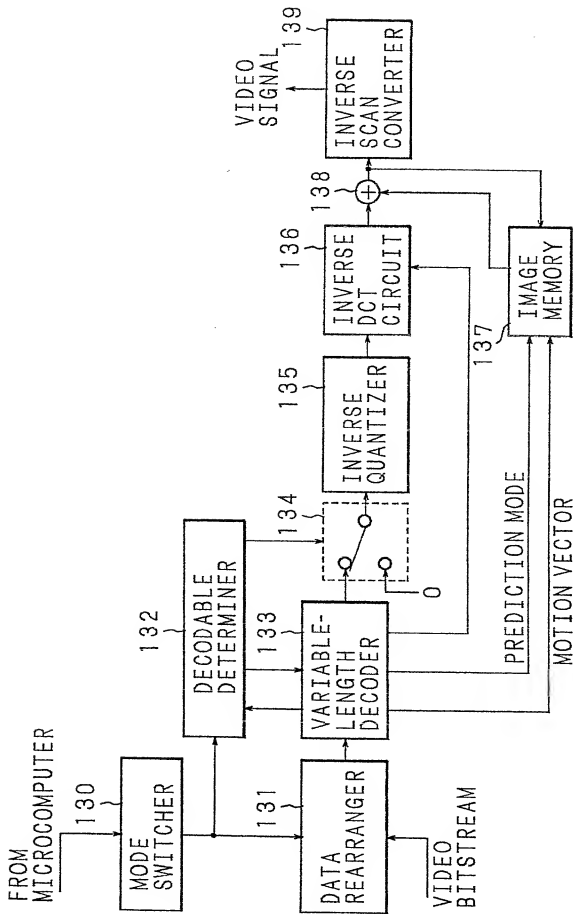
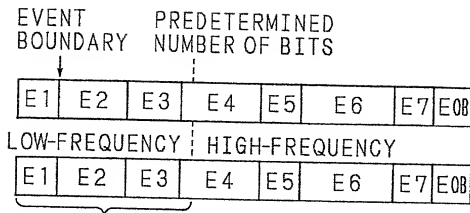


FIG. 72B



IN MODE WHERE THESE  
AREAS ARE DECODED,  
E4 DATA IS DISCARDED  
AND "0" IS INSERTED  
INTO HATCHED AREA

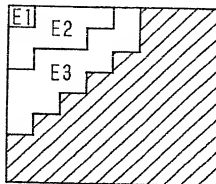


FIG. 73A

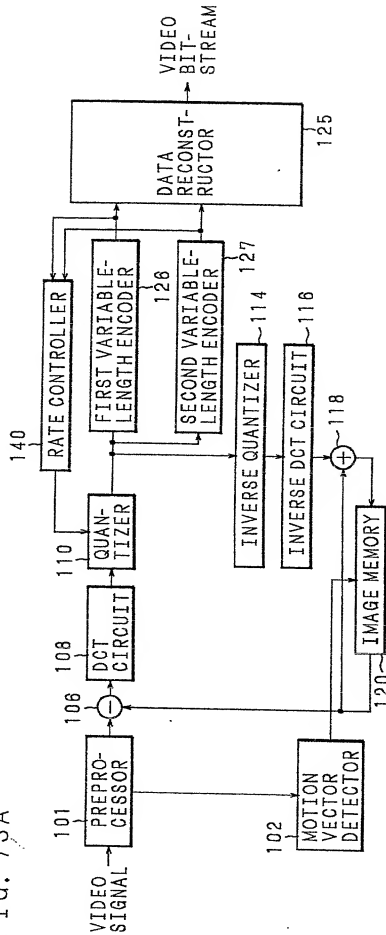


FIG. 73B

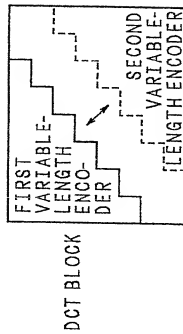


FIG. 74

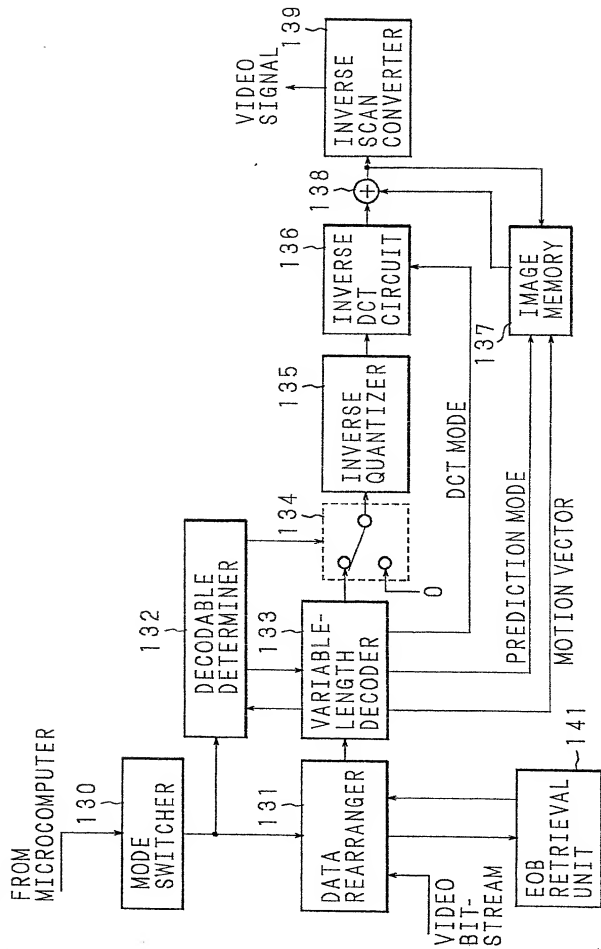


FIG. 75

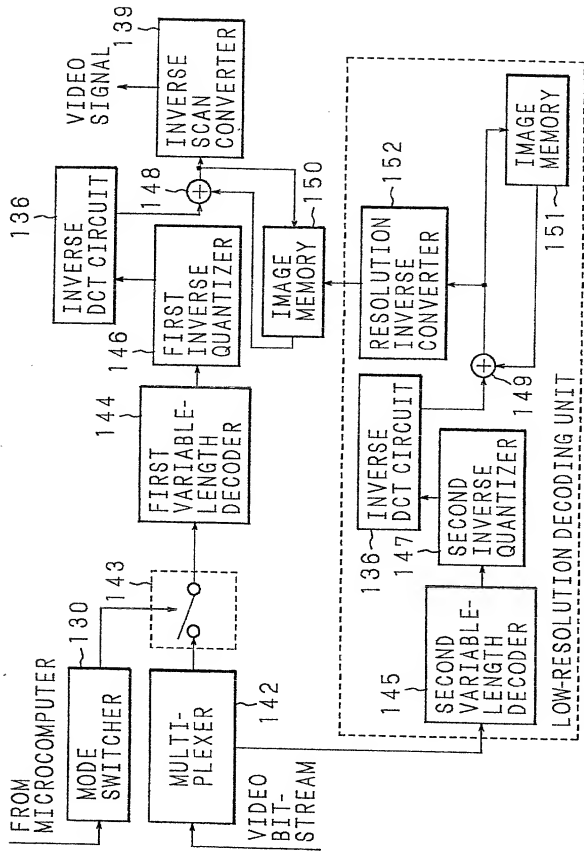


FIG. 76

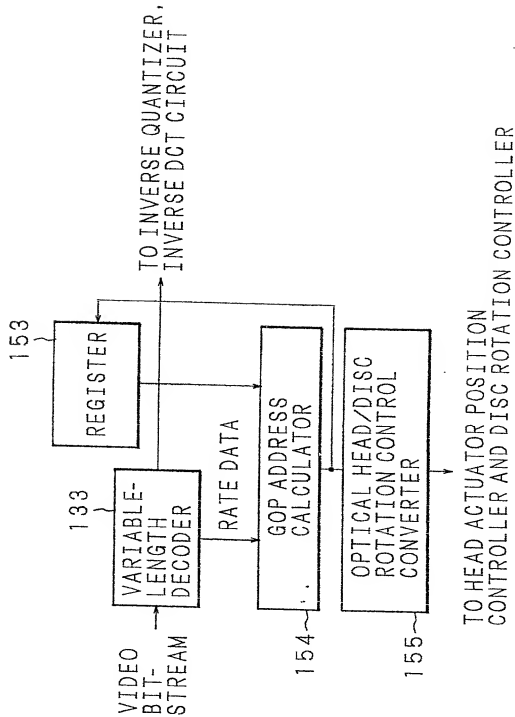


FIG. 77

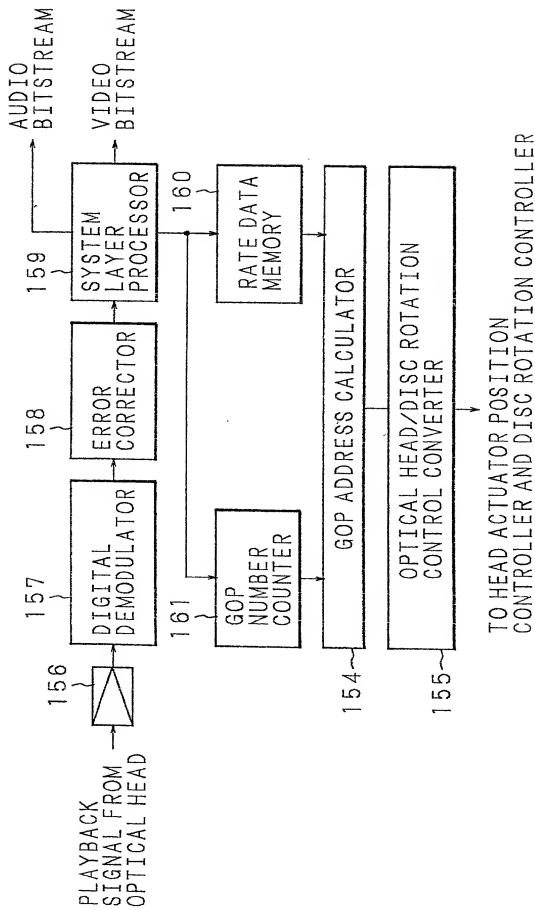


FIG. 78

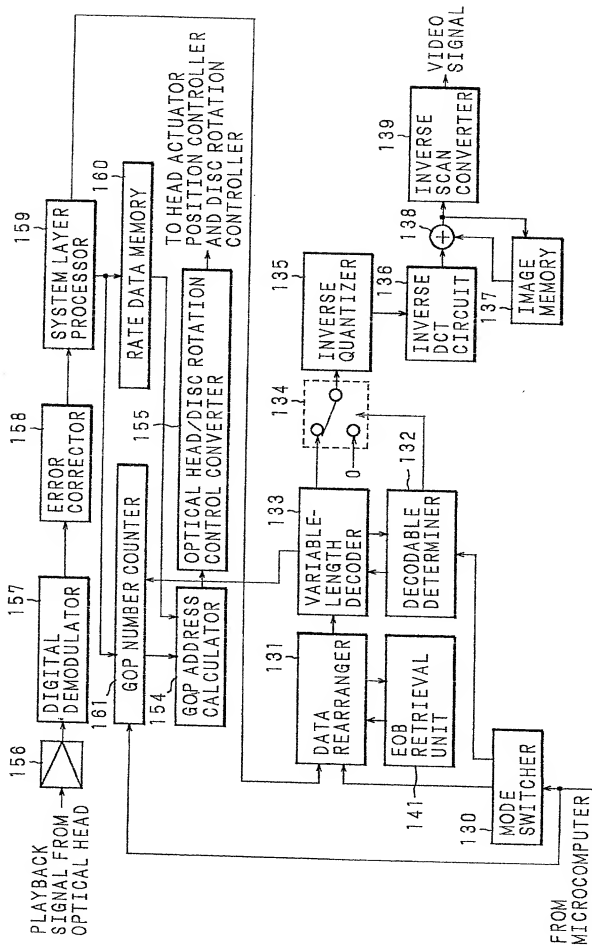




FIG. 79

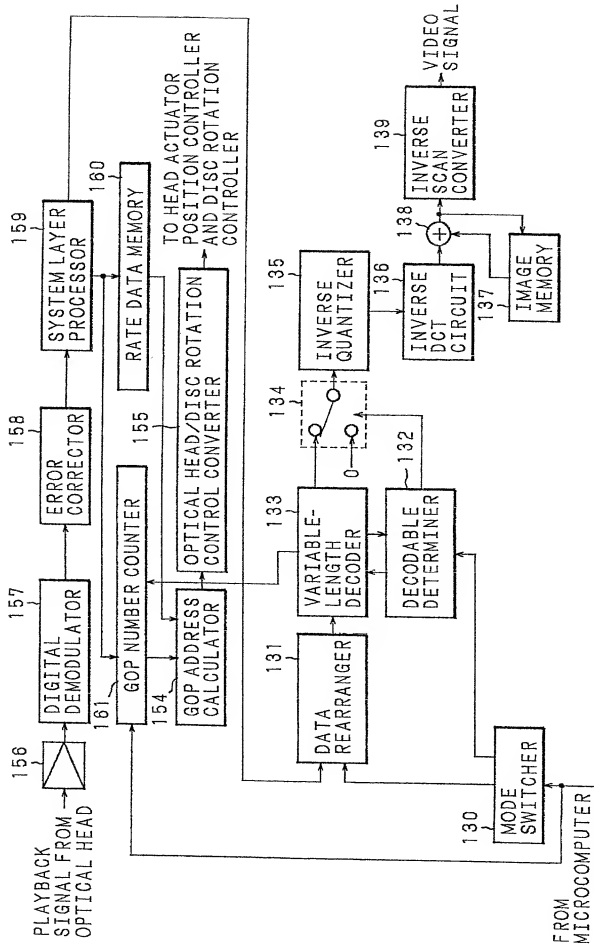




FIG. 81

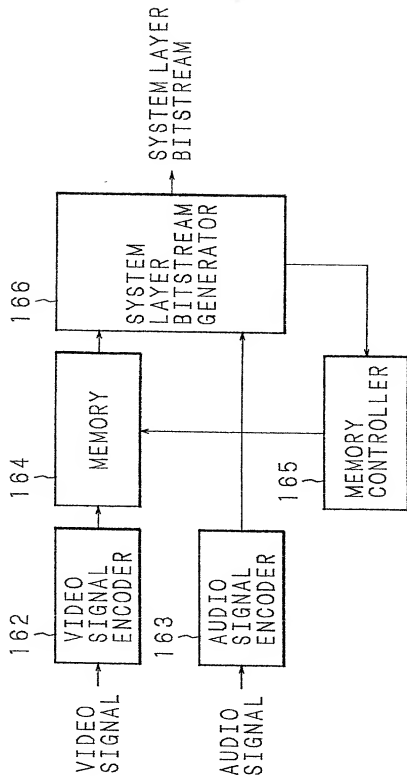


FIG. 82

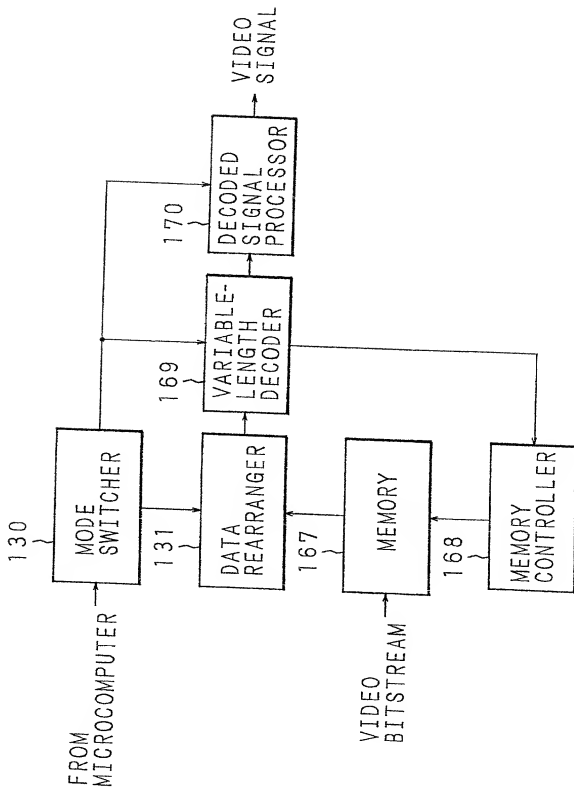


FIG. 83A

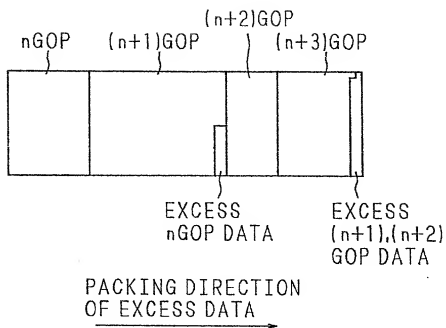


FIG. 83B

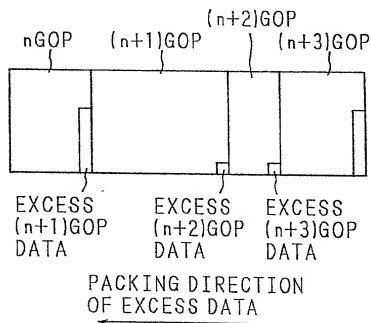
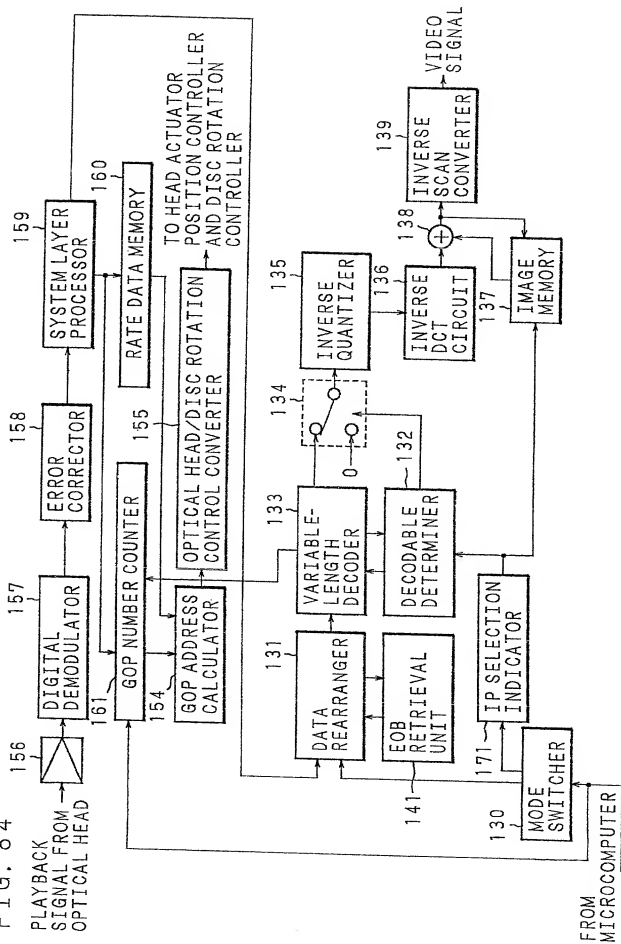


FIG. 84



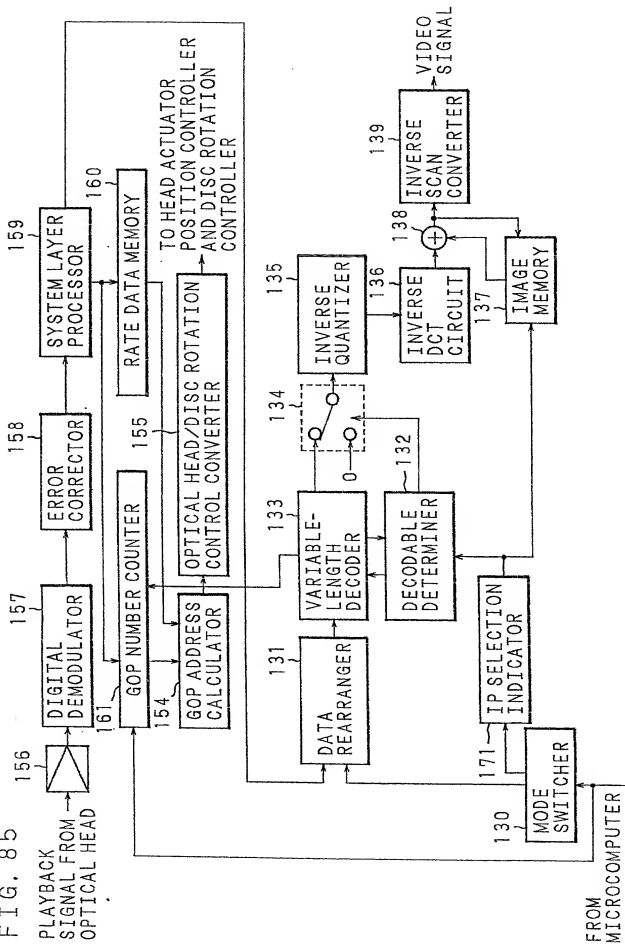
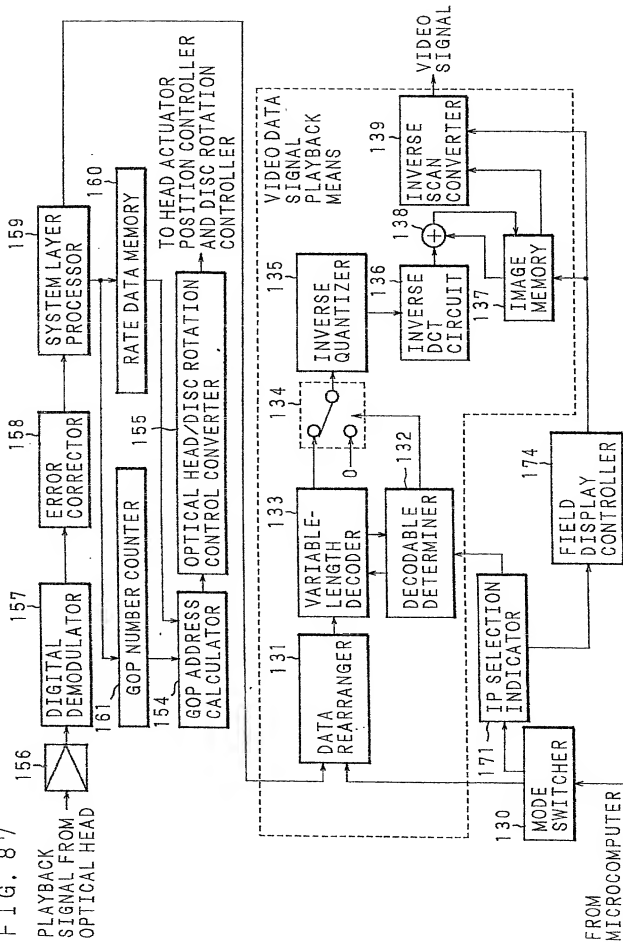






FIG. 87



8  
 8  
 G.  
 H  
 L

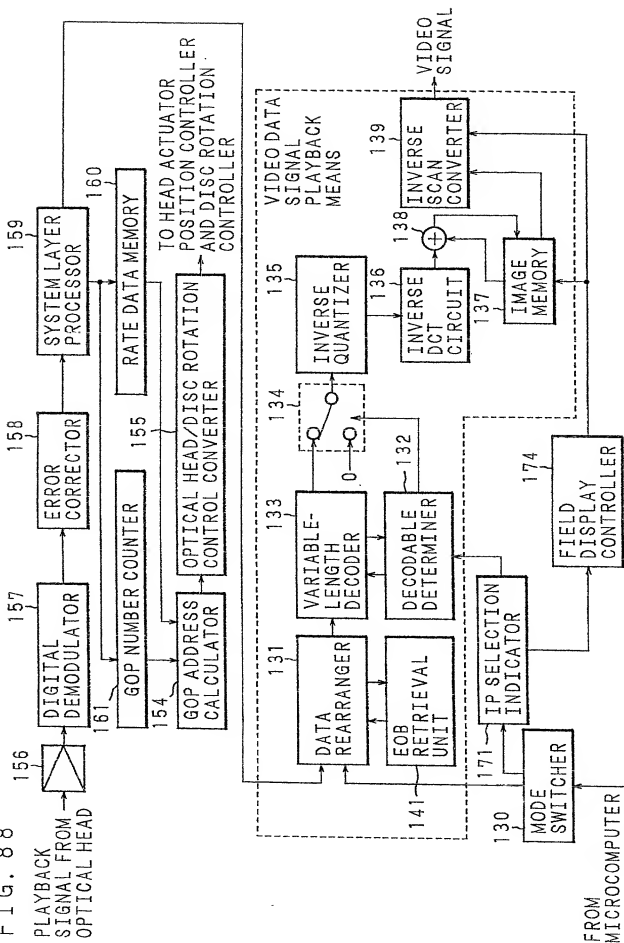


FIG. 89A

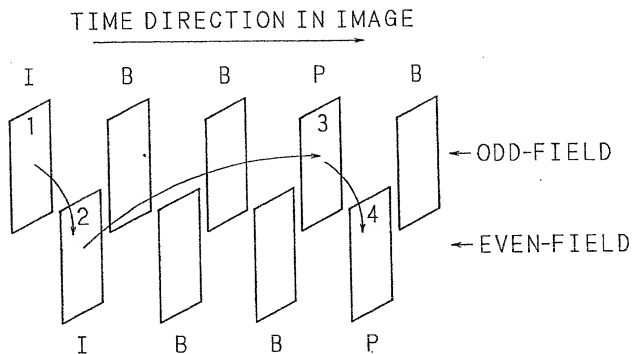


FIG. 89B

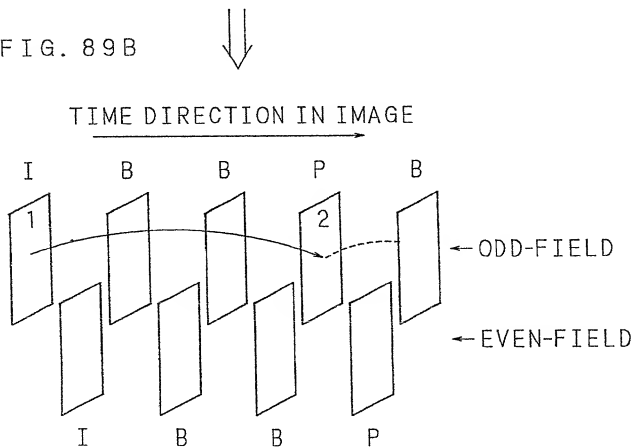


FIG. 90A

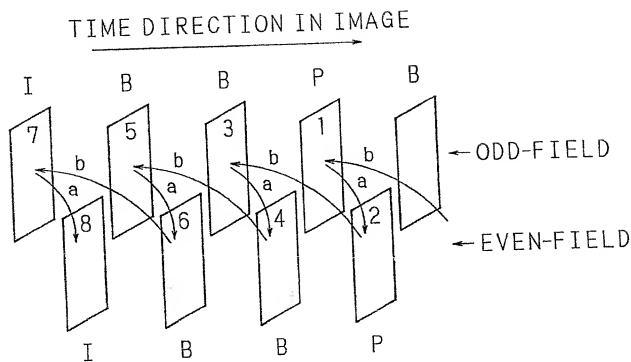


FIG. 90B

